b) Replacement Section for Amendments to the Claims

Kindly cancel claims 1-22, 42 and 43 without prejudice or disclaimer. A detailed listing of all the claims that are or were in the application is hereafter provided.

Claims 1-22 (Cancelled)

23. (Previously presented) A mesostructured thin film having an uniaxially oriented rod-shaped pore structure formed on a polymer compound, the polymer compound containing a sequence of two or more adjacent methylene groups in a molecular structure of the repeating unit of the polymer compound, wherein the surface of the polymer compound is uniaxially oriented.

24. (Original) The mesostructured thin film according to claim 23, wherein the polymer compound is a surface of a Langmuir-Blodgett film of the polymer compound.

Claims 25 and 26 (Cancelled)

27. (Original) The mesostructured thin film according to claim 23, wherein the mesostructured thin film contains silicon.

28. (Original) The mesostructured thin film according to claim 23, wherein the mesostructured thin film contains silica.

29. (Original) The mesostructured thin film according to claim 23, wherein the mesostructured thin film is formed by hydrolyzing a silicon alkoxide.

30. (Original) The mesostructured thin film according to claim 23, wherein the mesostructured thin film is formed by hydrolysis reaction in the presence of a surfactant.

31. (Original) The mesostructured thin film according to claim 23, wherein the mesostructured thin film has a hollow structure.

32. (Original) The mesostructured thin film according to claim 23, wherein the polymer compound is subjected to rubbing treatment before the formation of the mesostructured thin film.

33. (Original) The mesostructured thin film according to claim 32, wherein the rubbing treatment is conducted in a direction perpendicular to mesochannels of the mesostructured thin film to be formed.

34. (Original) The mesostructured thin film according to claim 23, wherein the number of a sequence of adjacent methylene groups in the repeating unit of the polymer compound ranges from 2 to 20.

35. (Original) The mesostructured thin film according to claim 23, wherein the sequence of adjacent methylene groups in the repeating unit of the polymer compound is contained in the main chain of the polymer compound.

36. (Original) The mesostructured thin film according to claim 23, wherein the sequence of adjacent methylene groups in the repeating unit of the polymer compound is contained in the side chain of the polymer compound.

37. (Previously presented) The mesostructured thin film according to claim 23, wherein the polymer compound has a functional group different from the methylene groups in the repeating unit.

38. (Previously presented) The mesostructured thin film according to claim 23, wherein the polymer compound is a polyamide.

Claim 39 (Cancelled)

40. (Previously presented) The mesostructured thin film according to claim 23, wherein a surfactant is contained in the pore structure.

41. (Previously presented) A mesostructure having mesopores comprising:

a polymer compound surface containing a sequence of two or more adjacent methylene groups in a molecular structure of the repeating unit of the polymer compound; and

uniaxially oriented rod-shaped mesopores arranged on the polymer compound surface, wherein the surface of the polymer compound is uniaxially oriented.

Claims 42 and 43 (Cancelled)